

METHOD FOR TRIMERIZING ETHYLENE

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Abstract of JP2002205960

PROBLEM TO BE SOLVED: To provide a method for trimerizing ethylene, capable of effectively producing 1-hexene from the ethylene with high selectivity.

SOLUTION: This method for trimerizing the ethylene comprises trimerizing the ethylene in the presence of hydrogen by using a catalyst formed by contacting a chromium complex with an alkylaluminumoxane, wherein the chromium complex is expressed by the formula: $ACrB_n$ (A is a neutral multidentate ligand having a tripod-shaped structure; Cr is a chromium atom; B is one or more kinds selected from the group consisting of H, a halogen, a straight chain alkyl or a branched chain alkyl; and (n) is 1-3) in which the chromium atom is coordinated with the neutral multidentate ligand having the tripod-shaped structure. Further, another catalyst formed by contacting the chromium complex with the alkylaluminumoxane together with a metal alkyl compound or the other catalyst formed by contacting the chromium complex with a compound having two or more hydroxy groups is used in the method.

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